

# PATENT SPECIFICATION



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202,859

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## PROVISIONAL SPECIFICATION.

### Improvements in or relating to Boots or Shoes.

I, WILLIAM HENRY TARRY, of Victoria Hotel, Wolverton, in the County of Bucks., Hotel Proprietor, a subject of the King of Great Britain, do hereby declare the nature of this invention to be as follows:—

This invention has reference to boots or shoes and in particular to boots for use in playing football and similar sports.

According to this invention the boot is provided at one or more points and especially at the toe or front with a gripping or non-slipping surface to enable the wearer of the boot when playing a game such as football to kick the ball with greater precision and more effectively than hitherto without the ball slipping relatively to the boot as so often occurs when the ball is wet thus rendering the result of the game dependent more on the skill of the players than occurs with boots as at present used. To this end the gripping or non-slipping surface or surfaces may be roughened, scored, indented or formed with ribs, projections or their equivalent or constituted of a composition or substance suitable for the purpose. The said surface or surfaces may be provided on the upper of the boot or on pieces such as for example toe-caps permanently secured to such upper.

Where the invention is applied to the toe or front of a boot such as that occupied by the toe-cap the front or toe-cap is preferably formed or provided with a corrugated surface or surfaces or with ribs having an angular or a sharp edge or

edges or with projections. The corrugations, ribs or projections may be formed on the front or cap by pressure or by scoring in one or more directions. The corrugations or ribs may be similarly arranged over the entire front or cap or may be varied at different parts, for example the corrugations or ribs may extend transversely on the upper part of the said front and obliquely at the parts adjoining the sole the oblique corrugations or ribs crossing each other at the middle of the front or cap portion and constituting a pointed or other suitable projection or projections thereon.

The front or cap is preferably made of thickened material to allow for the corrugations or grooves between the ribs or projections and the grooves are preferably of V shape in cross section. Instead of the gripping or non-slipping surface being provided on the leather or other material usually constituting the upper of the boot, it may be provided on a moulded rubber or composition cap or piece adapted to be permanently secured in place by sewing, rivets or otherwise.

Although the invention has been herein described in connection with boots it may be similarly applied to shoes, if desired.

Dated this 12th day of September, 1922.

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Agents for the Applicant.

## COMPLETE SPECIFICATION.

### Improvements in or relating to Boots or Shoes.

I, WILLIAM HENRY TARRY, of Victoria Hotel, Wolverton, in the County of Bucks., Hotel Proprietor, a subject of the King of Great Britain, do hereby declare the nature of this invention

and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has reference to boots

[Price

and shoes used for playing football and similar games and of the kind having surfaces, caps or pieces provided with ribs or projections separated by V- or similarly shaped grooves or channels for constituting a gripping and non-slipping surface thereby rendering the boot or shoe more efficient in use than where such a surface or part is not present. Boots thus provided are of considerable service in playing a game, such as football, enabling the ball to be kicked with precision.

According to this invention the part or parts of the boot or shoe provided with such gripping and non-slipping surface are made of thicker material than that used for the other part or parts of the upper and each of the ribs or projections is provided with a flat outer surface and sharp angular edges for rendering the same more effective in use than where each rib or projection terminates with a sharp angular or outer edge. The sharp angular edges according to this invention being formed by the junction of the flat outer surfaces with the walls of the V-shaped grooves or channels. In thus forming the ribs or projections they tend to remain rigid a greater length of time than is the case with ribs or projections terminating with sharp angular edges, further by the use of thicker material the part or parts provided with the gripping and non-slipping surface is rendered more serviceable in use the material remaining hard and firm a greater length of time and not so liable to rupture as compared with known forms of construction of gripping and non-slipping surfaces for boots and shoes. The preferred form of gripping and non-slipping surfaces for the front portions of boots and shoes constructed according to this invention comprise parts extending rearwardly from the toe cap portion of the boot or shoe.

In order that the said invention may be clearly understood and readily carried into effect the same will now be described more fully with reference to the accompanying drawings in which:—

Figure 1 is an illustration of a football boot provided with a toe-cap portion according to this invention.

Figures 2, 3, 4 and 5 are illustrations of the front portion of a football boot respectively provided with modified constructions of toe-cap portions.

Figure 6 is a detail perspective view to an enlarged scale hereinafter described.

Referring to the construction shown by way of example in Figure 1, the toe-cap portion *a* embodies lateral extensions *b* and is secured to the upper *c* of the boot. The toe-cap portion *a* and extensions *b* are provided with transverse grooves *d*

extending across the whole of the surface thereof. In the example of modified construction shown in Figure 2 the grooves *d* extend lengthwise of the toe-cap portion *a* and the lateral extensions *b*. With either construction the toe-cap portion *a* and extensions *b* are formed with a number of ribs *e* separated by the said grooves *d*, such ribs *e* serving to constitute the said gripping surface on the toe-cap portion *a* and extensions *b*, the construction shown in Figure 1 being serviceable to players using the front of the toe-cap portion for preventing relative slip in the direction of the length of the said portion and the construction shown in Figure 2 preventing relative lateral slip and serviceable to players inclined to use the side of or twist the foot in kicking the ball.

In the construction shown by way of example in Figure 3, the toe-cap portion *a* and extensions *b* are formed with two sets of obliquely arranged grooves *d* extending in different directions and constituting diamond or similarly shaped projections *f*. Alternatively the grooves *d* may extend at right angles to each other laterally and longitudinally of the said toe-cap portion *a* and extensions *b*. The projections thus formed serve to provide a gripping surface for general use in preventing the ball slipping relatively to the boot.

The construction of toe-cap portion *a* with extensions shown by way of example in Figure 4, embodies ribs *e* extending in different directions and projections *f*, the ribs *e* being constituted by the oblique grooves *d*<sup>1</sup> and lateral grooves *d*<sup>2</sup> and the projections *f* at the front of the toe-cap portion *a* being constituted by oblique grooves *d*<sup>3</sup> extending in different directions. Such an arrangement of ribs and projections is particularly adapted for preventing oblique slip relatively to the extensions *b*, and longitudinal slip at the upper part of, and longitudinal and lateral slip at the front of, the toe-cap portion, being more especially serviceable for the use of skilled football players.

With the modified construction shown by way of example in Figure 5 the front of the toe-cap portion *a* is provided with oblique ribs *e* extending in different directions and the upper part of the toe-cap portion and extensions *b* with laterally extending ribs, the ribs *e* on the front of the toe-cap portion being adapted to prevent lateral and oblique slipping and being constituted by the formation of oblique grooves *d*<sup>4</sup> meeting each other at or about the central longitudinal line of such portion.

The shape in cross section of the grooves

is shown in an enlarged scale in Figure 6 the grooves being of V form and so arranged relatively to each other as to constitute ribs *e* each with a flat upper or outer surface *e*<sup>1</sup>. In thus forming each of the ribs a firm and endurable edge is provided at each margin of the upper or outer flat surface adjoining the contiguous sloping walls of adjacent grooves.

The toe-cap portion *a* with its extensions *b* is permanently secured at the inner margins to the upper *c* of the boot by sewing although if desired, other methods of securing it in position may be employed. The boot or shoe may be provided with portions similar to the toe-cap portions at other parts of the upper thereof. Alternatively when the toe or other portion of the upper of the boot constitutes an integral part thereof the ribs, projections and grooves are provided on or in the same, and when so provided such portion is of thicker material than the remainder of the upper.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A boot or shoe having a toe, front

or other portion of thicker material than that used for the other parts of the upper of the boot or shoe provided with a gripping and non-slipping surface consisting of ribs or projections separated by V shaped grooves or channels formed in the said thicker material, each of the ribs or projections being provided with a flat upper surface having sharp angular edges at the junction thereof with the walls of the adjacent V shaped grooves or channels, for the purpose specified.

2. A boot or shoe according to Claim 1, wherein the gripping and non-slipping surface at the front of the boot or shoe comprises rearwardly extending lateral portions adjoining the sole of the boot or shoe, for the purpose specified.

3. A boot or shoe according to Claim 1 or 2 constructed substantially as herein described with reference to any of the examples illustrated in Figures 1 to 5 inclusive of the accompanying drawings, for the purpose specified.

Dated this 14th day of May, 1923.

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[This Drawing is a reproduction of the Original on a reduced scale]

Fig. 1.

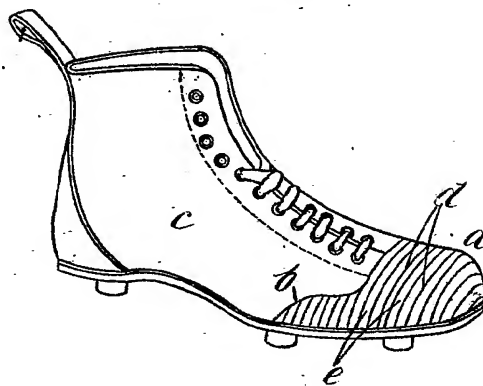


Fig. 2.

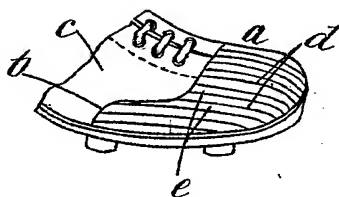


Fig. 3.

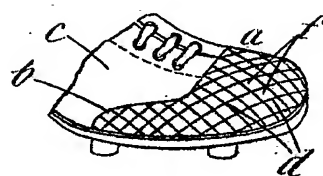


Fig. 4.

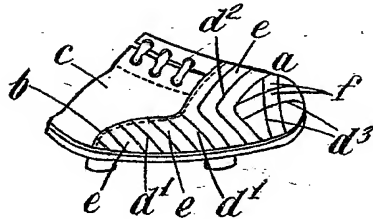


Fig. 5.

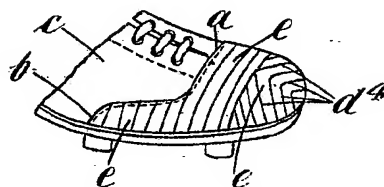


Fig. 6.

